

M200 Qualities

Integrated Printing Environment

- » Layer Plastic Deposition technology makes use of materials with different physical qualities
- » Dedicated Z-ABS® filament guarantees high quality prints
- » Z-Suite® Software works with most CAD modeling programs

Wide Variety of Materials

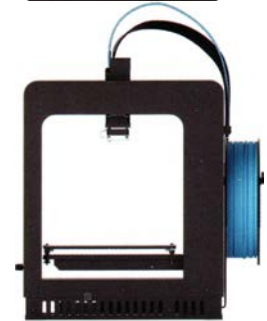
- » Many colors of Z-Filament Series and low printing cost
- » Z-ABS®, Z-ULTRAT® - ideal materials to paint and treat, both mechanically and chemically
- » Coming soon, implementation of a wide assortment of materials:
Z-PCABS®, Z-NYLON™, Z-FLEX™, Z-GLASS™, Z-ALU™

Dedicated Software

- » Intuitive interface which allows importing files in .stl format
- » Ability to print offline thanks to the built-in SD Card Reader
- » Software is compatible with Windows and Mac OS X

Useful Technical Parameters

- » Large build space, dimensions: 200 x 200 x 185 mm
- » Possibility to print using a wide range of resolutions
- » Technologically advanced, perforated plate with an automated point calibration system



zortrax M200

The Technology

Build Volume

A surface of 200 x 200 x 185 mm allows large objects to be printed. Due to LPD technology, even the largest models are not subject to deformation. This allows printing a complete object or its smaller parts, which fit together perfectly after being assembled.

Single Extruder Support (SES)

The Zortrax M200® automatically generates reinforcement material (the so-called support). It is a key factor in printing complicated models with elements located under the build plate. Support material is applied using the same extruder, which eliminates the need for additional spools with filament. The support is easy to remove, leaves no traces on the printed object nor does it damage it.



Layer Plastic Deposition (LPD)

Integrating key elements (printer construction, dedicated Z-Suite® Software and a line-up of filaments) enabled creating a new printing technology - LPD - thanks to which the models can be reproduced with more detail. The precise process of applying filament layer by layer allows printed models to be used as prototypes of objects created further with injection molding technology.

SD Card Reader and Display

The card reader ensures quick and easy transfer of the model object file to the printer. The built-in display has all the functions necessary for easy and fast operation of the machine, such as choosing a model, uploading filament, calibration and a printing progress bar.

Platform

Dual Raft Surface (DRS)

The layer generated as the first when printing the support. The raft ensures that the model is firmly fixed in place on the build plate. This layer protects the print from deformations and increases the level of detail.

Perforated Surface

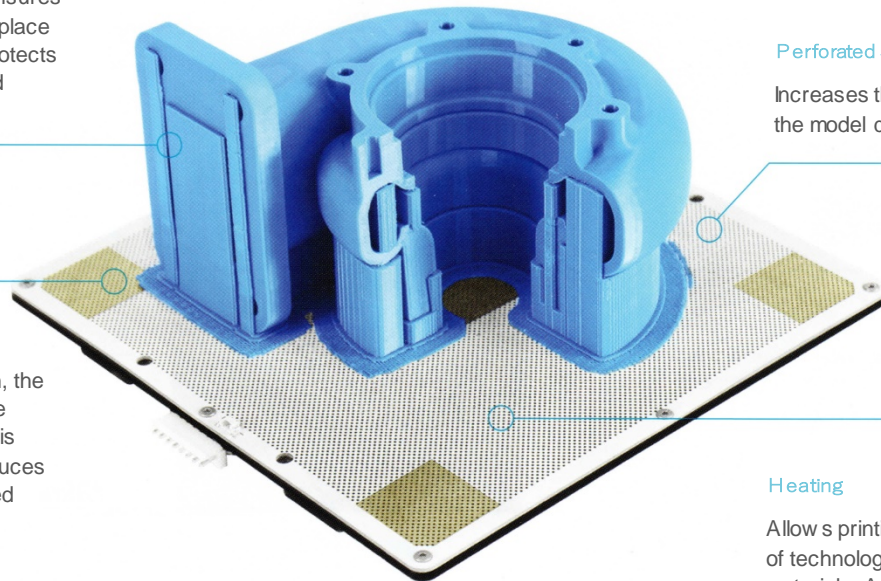
Increases the adhesion of the model during printing.

Auto-calibration

Thanks to automatic calibration, the printer automatically adjusts the position of the extruder while it is working on the model. This reduces the risk of errors and unintended curvatures.

Heating

Allows printing with the use of technologically demanding materials. Additionally, it makes the process of removing the model from the platform after the print is complete easier.



Z-Filament Series

Zortrax Filaments were created to ensure the highest quality of prints in the Zortrax M200® environment.

The **Z-ABS®** line of filaments is the effect of work with a material which allows the full potential of the Zortrax M200® 3D printer to be released. An ideal proportion of polycarbonate and ABS material combines the best qualities of each material.

Z-ABS® is an elastic and durable material alike, suitable for mechanical treatment. It is therefore optimal for creating objects of everyday use, architectural models, mechanical parts or prototypes of home appliances or electronics. Models printed using Z-ABS® can be used as prototypes of objects created further with injection molding technology.

Z-ULTRAT® is a premium plastic filament for 3D printing with the Zortrax M200®. It is a material with a high hardness level, high durability and low level of deformation. It is excellent for printing architectural models, utility models and working parts in machine prototypes.

Perfectly imitates the properties of materials used in mass production. It is available in a full range of colors.



Coming soon:

Z-PCABS®

resistant to high temperatures

Z-NYLON™

durable, elastic, prone to staining

Z-HIPST™

sturdy and durable, resist on high impact

Z-GLASS™

transparent, high level of hardness

Z-WOOD™

biodegradable, eco friendly, texture similar to wood

Zortrax M200®: Possibilities



Production engineering

Design, implement and improve products with the Zortrax M200® through an economic and smooth production process.

Medicine

3D printing technology helps bring medical device prototypes to life.

Industrial design

Choose an alternative to expensive and time-consuming prototyping. Make fast changes and bring finished projects to your clients faster.



Architecture

Build durable, beautiful mockups with a time-saving and efficient 3D printing environment.

Education

Help future designers, engineers and architects grow their ideas and solve problems.

Zortrax M200[®]: Possibilities



Advertising and entertainment

Surprise your clients with lifelike models produced within days instead of weeks.

Rapid prototyping

Shrink the cost and risk associated with popular production methods.

Engineering and machine design

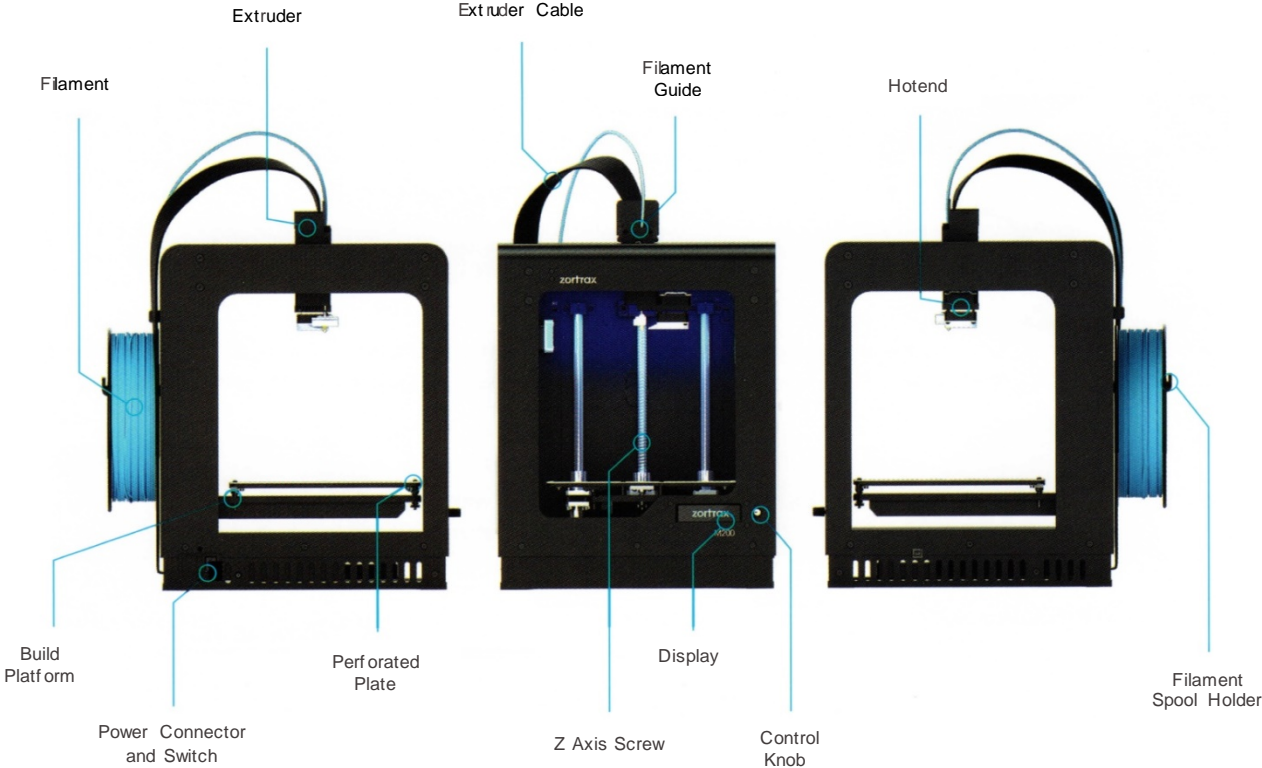
Accelerate design and functionality with 3D printed durable prototypes. Test and improve your designs with Zortrax machines.

Functional prototyping

Build, test, tool up with precision. Prototype and improve with advanced 3D printing well before production process started.



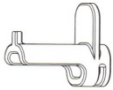
Overview



In the Box



Zortrax M200™
3D Printer



Filament Spool
Holder



Filament Guide



Filament Spool



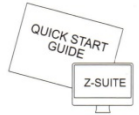
Perforated
Plate



Power Cable



SD Card &
SD Card
Reader



Z-Suite™
&
Quick Start Guide



Safety
Gloves



Cutting Knife
&
Scalpel



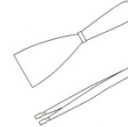
Allen Keys



Nozzle Key
&
Nozzle Needle



Pliers



Spatula
&
Tweezers



Service Grease



Safety Glasses

Specifications

PHYSICAL DIMENSIONS

| | |
|-----------------|--|
| Without Spool | 345 x 360 x 430 mm (13.6 x 14 x 17 in) |
| With Spool | 345 x 430x 430 mm (13.6x 17 x 17in) |
| Shipping Box | 460 x 470 x 570 mm (18 x 18.5 x 22.4 in) |
| Weight | 13 kg (28.7 lbs.) |
| Shipping weight | 20 kg (44 lbs.) |

TEMPERATURE

| | |
|-------------------------------|-----------------------|
| Ambient Operating Temperature | 15°-35° C (60°-95° F) |
| Storage Temperature | 0°-35° C (32°-95° F) |

ELECTRICAL

| | |
|--------------------|----------------------------|
| AC input | 110 /240V -2A 50/60 Hz |
| Power requirements | 24VDC @1.1 A |
| Power consumption | -190W |
| Connectivity | SD cable (included), WiFi* |

SOFTWARE

| | |
|-----------------|--|
| Software bundle | Z-Suite® |
| File types | stl, obj, dxf |
| Supports | Mac OS X / Windows XP, Windows Vista, Windows 7, Windows 8 |

PRINTING

| | |
|-------------------------------------|--|
| Print technology | LPD - Layer Plastic Deposition |
| Build volume | 200 x 200 x 185 mm (7.87 x 7.87 x 7.28 in) |
| Layer resolution settings | Advanced: 25-50 microns (0.000984-0.0019685 in) Standard: 90-400 microns (0.003543-0.015748 in) |
| Wall thickness | Minimum: 400 microns Optimal: 800+ microns Resolution of single printable point 400+ microns |
| Filament Diameter | 1.75 mm (0.069 in) |
| Filament Type | Z-Filament Series |
| Nozzle diameter | 0.4 mm (0.015 in) |
| Minimum single positioning | 1.5 microns |
| Positioning precision X/Y | 1.5 microns |
| Z single step | 1.25 microns |
| Extruder maximum temperature | 380° C (716° F) |
| Heated platform maximum temperature | 110°C (230° F) |

*Available in future update